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PTO/SB/08A/B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	09/937,292	
			Filing Date	September 24, 2001	
			First Named Inventor	BEAUCAGE, Serge L.	
			Group Art Unit		
			Examiner Name		
Sheet	1	of	5	Attorney Docket Number	213673

U.S. PATENT DOCUMENTS								
Examiner Initials ¹	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass	Filing Date If Appropriate
		Patent Number	Kind Code					
YD	AA	3,534,017		Fujimoto et al.	10-13-1970			
	AB	4,415,732		Caruthers et al.	11-15-1983			
	AC	4,417,046		Hsiung et al.	11-22-1983			
	AD	4,458,066		Caruthers et al.	07-03-1984			
	AE	4,663,446		Wright	05-05-1987			
	AF	4,668,777		Caruthers et al.	05-26-1987			
	AG	4,725,677		Köster et al.	02-16-1988			
	AH	4,739,044		Stabinsky	04-19-1988			
	AI	4,757,141		Fung et al.	07-12-1988			
	AJ	4,808,708		Yoshida et al.	02-28-1989			
	AK	4,816,569		Miyoshi	03-28-1989			
	AL	4,816,570		Farquhar	03-28-1989			
	AM	4,845,205		Huynh Dinh et al.	07-04-1989			
	AN	4,849,513		Smith et al.	07-18-1989			
	AO	4,973,679		Caruthers et al.	11-27-1990			
	AP	4,980,460		Molko et al.	12-25-1990			
	AQ	5,026,838		Nojiri et al.	06-25-1991			
	AR	5,039,796		Engels et al.	08-13-1991			
	AS	5,071,974		Groody	12-10-1991			

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

Examiner Signature	T. A. Soloka	Date Considered	9-3-04
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		Patent Number	Kind Code					
YD	AT	5,091,519		Cruickshank	02-25-1992			
	AU	5,134,228		Takaku	07-28-1992			
	AV	Re.34,069		Köster et al.	09-15-1992			
	AW	5,166,330		Engels et al.	11-24-1992			
	AX	5,212,304		Fung et al.	05-18-1993			
	AY	5,214,135		Srivastava et al.	05-25-1993			
	AZ	5,252,760		Urdea et al.	10-12-1993			
	BA	5,258,538		Fung et al.	11-02-1993			
	BB	5,324,831		Marquez et al.	06-28-1994			
	BC	5,332,845		Urdea et al.	07-26-1994			
	BD	5,348,868		Reddy et al.	09-20-1994			
	BE	5,428,148		Reddy et al.	06-27-1995			
	BF	5,430,138		Urdea et al.	07-04-1995			
	BG	5,449,602		Royer et al.	09-12-1995			
	BH	5,506,351		McGee	04-09-1996			
	BI	5,510,476		Ravikumar et al.	04-23-1996			
	BJ	5,518,651		Reddy et al.	05-21-1996			
	BK	5,525,719		Srivastava et al.	06-11-1996			
	BL	5,556,961		Foote et al.	09-17-1996			
✓	BM	5,571,902		Ravikumar et al.	11-05-1996			

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		Patent Number	Kind Code					
YD	BN	5,574,146		Reddy et al.	11-12-1996			
	BO	5,614,622		Iyer et al.	03-25-1997			
	BP	5,616,700		Reddy et al.	04-01-1997			
	BQ	5,623,068		Reddy et al.	04-22-1997			
	BR	5,645,985		Froehler et al.	07-08-1997			
	BS	5,646,265		McGee	07-08-1997			
	BT	5,681,940		Wang et al.	10-28-1997			
	BU	5,700,919		Seliger et al.	12-23-1997			
	BV	5,703,223		Wickstrom et al.	12-30-1997			
	BW	5,705,621		Ravikumar	01-06-1998			
	BX	5,712,378		Wang	01-27-1998			
	BY	5,714,597		Ravikumar et al.	02-03-1998			
	BZ	5,731,429		Reddy et al.	03-24-1998			
	CA	5,959,099		Cheruvallath et al.	09-28-1999			

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Examiner Initials ¹	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass	Translation	
		Office	Number	Kind Code					Yes	No*
YD	CB	EP	0006220	A	Hoechst AG	01-09-1980			X ⁺	
	CC	EP	0090789	A	Monsanto Company	10-05-1983				
	CD	EP	0196101	A	Chiron Corporation	10-01-1986				

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Date Considered

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		Office	Number	Kind Code					Yes	No [*]
	CE	EP	0219342	A	Genentech, Inc.	04-22-1987				
	CF	EP	0241363	A	Commissariat a L'Energie Atomique (Paris)	10-14-1987			X ⁺	
	CG	EP	0323152	A	Applied Biosystems, Inc.	07-05-1989				
	CH	GB	2,153,356	A	California Inst. Technol.	08-21-1985				
	CI	WO	88/02004	A	Applied Biosystems, Inc.	03-24-1988				
	CJ	WO	93/12132	A	CNRS (Paris)	06-24-1993			X ⁺	

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No [*]
Y0	CK	BEAUCAGE et al., <i>Tetrahedron</i> , 49 (28), 6123-6194 (1993). ✓		
	CL	BROWN et al., <i>J. Chem. Soc., Chem. Commun. (Royal Society of Chemistry)</i> , 891-893 (1989). ✓		
	CM	CAO et al., <i>Tetrahedron Lett.</i> , 24 (10), 1019-1020 (1983). ✓		
	CN	GARDRAT et al., <i>J. Heterocycl. Chem.</i> , 27, 811-812 (March-April 1990). ✓		
	CO	GRAJKOWSKI et al., <i>Org. Lett.</i> , 3 (9), 1287-1290 (December 2001). ✓		
	CP	GUZAEV et al., <i>Tetrahedron Lett.</i> , 41, 5623-5626 (2000). ✓		
	CQ	IYER et al., <i>J. Org. Chem.</i> , 60, 5388-5389 (1995). ✓		
	CR	IYER et al., <i>Tetrahedron: Assymetry</i> , 6 (5), 1051-1054 (1995). ✓		
	CS	KAWANOBE et al., <i>Chem. Lett. (Chemical Society of Japan)</i> , 825-828 (1982). ✓		
✓	CT	MIZRAKH et al., <i>Zh. Obschei Khimii</i> , 45 (7), 1469-1473 (July 1975). ✓		

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